

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A method for editing a multi-layer original image ~~presented~~ displayed on a ~~system display screen~~ , comprising:

in response to receiving an indication to edit a region of said original image, distorting a ~~predetermined~~ portion of a first layer of said original image to produce a distorted image for said region , said distorted image including a magnified region having a magnification for said region at least partially surrounded by an at least partially compressed region where said magnification decreases to that of said original image to provide context for said magnified region with respect to said original image ;

overlaying said distorted image on a second layer of said original image to produce an overlaid image and displaying said overlaid image ~~for presentation~~ on said ~~system display screen~~ to replace display of said original image ; and,

upon completion of editing of said overlaid image, selectively propagating edits made to said first layer through to said second layer ~~remaining layers~~ of said original image.

2. (Currently Amended) The method of claim 1 wherein said distorting further includes ÷

~~creating a lens surface for said distorted image; and,~~

~~transforming said predetermined portion of said first layer by~~ applying a distortion function ~~defining said lens surface~~ to said ~~predetermined~~ portion of said first layer by displacing said portion onto said distortion function and projecting said displaced portion onto a plane .

3. (Currently Amended) The method of claim 2 wherein said ~~creating~~ applying further includes displaying a graphical user interface ("GUI") over said distorted image for receiving one or more signals for adjusting said ~~lens surface~~ distortion function .

4. (Currently Amended) The method of claim 3 wherein said ~~lens-surface~~ distortion function includes a focal region corresponding to said magnified region and having an elevation to provide said magnification upon said projecting onto said plane and a shoulder base region corresponding to said compressed region where said elevation decreases to provide said decreasing magnification upon said projecting onto said plane and said GUI includes at least one of :

means ~~a slide bar icon~~ for adjusting ~~a~~ said elevation and hence said magnification for said lens-surface ;

means ~~a slide bar icon~~ for adjusting a degree of scooping for said ~~lens-surface~~ distortion function ;

means ~~a bounding rectangle icon with at least one handle icon~~ for adjusting an extent a size and a shape for said focal region;

means ~~a bounding rectangle icon with at least one handle icon~~ for adjusting an extent a size and a shape for said shoulder base region;

means ~~a move icon~~ for adjusting a location for said ~~lens-surface~~ distortion function within said first layer;

means ~~a pickup icon~~ for adjusting a location for an outline of said shoulder base region within said first layer; and,

means ~~a fold icon~~ for adjusting a location for said focal region relative to said shoulder base region.

5. (Currently Amended) The method of claim 1 and further comprising receiving a signal -4 wherein said GUI further includes ~~at least one of a layer toggle icon and a layer toggle keyboard input~~ for switching among said first and second layers.

6. (Currently Amended) The method of claim 1 and further comprising receiving a signal -5 wherein said GUI further includes ~~at least one of a layer selection icon and a layer selection keyboard input~~ for selecting among said first and second layers.

7. (Currently Amended) The method of claim 1 and further comprising receiving a signal -6 wherein said GUI further includes ~~at least one of a layer fold icon and a layer fold keyboard input~~ for selecting a folded distorted image lens-surface .

8. (Currently Amended) The method of claim 7 wherein said folded distorted image lens surface includes a second magnified focal region for displaying said region in a portion of said second layer.

9. (Currently Amended) The method of claim 8 wherein said magnified focal region is folded away from an original position relative to said compressed base region.

10. (Currently Amended) The method of claim 9 wherein said second magnified focal region is located at said original position.

11. (Currently Amended) The method of claim 1 and further comprising receiving a signal ~~10 wherein said GUI further includes at least one of a layer clear icon and a layer clear keyboard input~~ for selecting a user-adjustable window for display in said magnified focal region.

12. (Original) The method of claim 11 wherein said window displays a portion of said second layer.

13. (Currently Amended) The method of claim 3 ~~—4—~~ wherein said one or more signals ~~adjusting is performed~~ and said indication are ~~is—~~ generated by ~~moving a cursor on said system display~~ with a pointing device.

14. (Original) The method of claim 1 wherein said first and second layers are one or more of raster, vector, point, and geo-referenced data layers.

15. (Currently Amended) The method of claim 1 wherein said indication, region, ~~predetermined~~ portion, first layer, distorted image, and second layer includes a plurality of indications, regions, ~~predetermined~~ portions, first layers, distorted images, and second layers, respectively.

16. (Currently Amended) The method of claim 3 ~~—11—~~ wherein at least some of said means are icons ~~said layer toggle icon, layer toggle keyboard input, layer selection icon, layer selection~~

~~keyboard input, layer fold icon, layer fold keyboard input, layer clear icon, and layer clear keyboard input includes a plurality of layer toggle icons, layer toggle keyboard inputs, layer selection icons, layer selection keyboard inputs, layer fold icons, layer fold keyboard inputs, layer clear icons, and layer clear keyboard inputs, respectively .~~

17. (Original) The method of claim 1 and further comprising saving said edits for subsequent recall and application.

18. (Original) The method of claim 17 wherein said edits are saved as bookmarks.

19. (Original) The method of claim 18 wherein said editing includes applying said bookmarks.

20. (Currently Amended) A method for generating a presentation of ~~presenting~~ a region of a multi-layer original image for display on a system display screen , comprising:

distorting a ~~predetermined~~ portion of a first layer of said original image to produce a distorted image for said region , said distorted image including a magnified region having a magnification for said region at least partially surrounded by an at least partially compressed region where said magnification decreases to that of said original image to provide context for said magnified region with respect to said original image; and, overlaying said distorted image on a second layer of said original image ~~for~~ to generate said presentation on said system display ; and,
displaying said presentation on said display screen .

21. (Currently Amended) The method of claim 20 wherein said distorting further includes ÷
~~creating a lens surface for said distorted image; and,~~
~~transforming said predetermined portion of said first layer by~~ applying a distortion function ~~defining said lens surface to said predetermined portion of said first layer by displacing said portion onto said distortion function and projecting said displaced portion onto a plane .~~

22. (Currently Amended) The method of claim 21 wherein said ~~creating~~ applying further includes displaying a graphical user interface ("GUI") over said distorted image for receiving one or more signals for adjusting said ~~lens-surface~~ distortion function .

23. (Currently Amended) The method of claim 22 wherein said ~~lens-surface~~ distortion function includes a focal region corresponding to said magnified region and having an elevation to provide said magnification upon said projecting onto said plane and a shoulder base region corresponding to said compressed region where said elevation decreases to provide said decreasing magnification upon said projecting onto said plane and said GUI includes at least one of :

means ~~a slide bar icon~~ for adjusting a said elevation and hence said magnification for said lens-surface ;

means ~~a slide bar icon~~ for adjusting a degree of scooping for said ~~lens-surface~~ distortion function ;

means ~~a bounding rectangle icon with at least one handle icon~~ for adjusting an extent a size and a shape for said focal region;

means ~~a bounding rectangle icon with at least one handle icon~~ for adjusting an extent a size and a shape for said shoulder base region;

means ~~a move icon~~ for adjusting a location for said ~~lens-surface~~ distortion function within said first layer;

means ~~a pickup icon~~ for adjusting a location for an outline of said shoulder base region within said first layer; and,

means ~~a fold icon~~ for adjusting a location for said focal region relative to said shoulder base region.

24. (Currently Amended) The method of claim 20 and further comprising receiving a signal ~~23~~ wherein said GUI further includes ~~at least one of a layer toggle icon and a layer toggle keyboard input~~ for switching among said first and second layers.

25. (Currently Amended) The method of claim 20 and further comprising receiving a signal ~~24~~ wherein said GUI further includes at least one of a layer selection icon and a layer selection keyboard input for selecting among said first and second layers.

26. (Currently Amended) The method of claim 20 and further comprising receiving a signal ~~25~~ wherein said GUI further includes at least one of a layer fold icon and a layer fold keyboard input for selecting a folded distorted image lens surface .

27. (Currently Amended) The method of claim 26 wherein said folded distorted image lens surface includes a second magnified focal region for displaying said region in a portion of said second layer.

28. (Currently Amended) The method of claim 27 wherein said magnified focal region is folded away from an original position relative to said compressed base region.

29. (Currently Amended) The method of claim 28 wherein said second magnified focal region is located at said original position.

30. (Currently Amended) The method of claim 20 and further comprising receiving a signal ~~29~~ wherein said GUI further includes at least one of a layer clear icon and a layer clear keyboard input for selecting a user-adjustable window for display in said magnified focal region.

31. (Original) The method of claim 30 wherein said window displays a portion of said second layer.

32. (Currently Amended) The method of claim 22 ~~23~~ wherein said one or more signals are generated adjusting is performed by moving a cursor on said system display with a pointing device.

33. (Original) The method of claim 20 wherein said first and second layers are one or more of raster, vector, point, and geo-referenced data layers.

34. (Currently Amended) The method of claim 20 wherein said indication, region, ~~predetermined~~ portion, first layer, distorted image, and second layer includes a plurality of indications, regions, ~~predetermined~~ portions, first layers, distorted images, and second layers, respectively.

35. (Currently Amended) The method of claim 23 ~~—30—~~ wherein at least some of said means are icons ~~said layer toggle icon, layer toggle keyboard input, layer selection icon, layer selection keyboard input, layer fold icon, layer fold keyboard input, layer clear icon, and layer clear keyboard input~~ includes a plurality of layer toggle icons, layer toggle keyboard inputs, layer selection icons, layer selection keyboard inputs, ~~layer fold icons, layer fold keyboard inputs, layer clear icons, and layer clear keyboard inputs, respectively~~ .